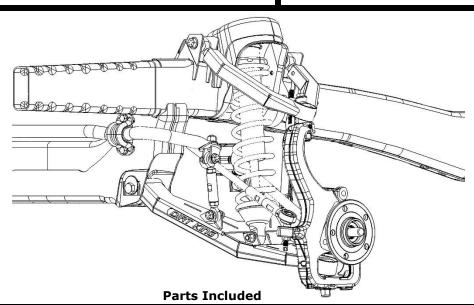


Long Travel Kit Part # DK-541908-H Page 1 of 6



1 Pair Lower control arms (assembled) DK-541908-LCA 1A 2 FK 1" uniball WSSX16T 1B 2 1" uniball snap ring WSSX16T-SR 1C 2 Front inner bushing sleeve DK-185803792 1D 2 Back inner bushing sleeve DK-185803792 1E 2 V/2"-20 x 3" grade 8 bolts with SAE washes and nylocs N/A 1F 4 W-28 zerk fitting DK-2F0890 1G 8 Delrin bushing DK-D8600025 1H 2 Dirt King logo plate N/A 2 2 Upper control arms (assembled) DK-541908-H-UCA 2A 2 FK 1" uniball WSSX16T-SR 2C 4 FK 1" uniball WSSX16T-SR 2C 4 FK 4" neim JM12T 2D 4 FK 4" neim JM12T 2C 4 FK 4" neim JM22T 2E 8 3 "heim spacer DK-9830054 3 4 5/8"-18 x 3.5" grade 8	Item #	Quantity	Item Description	Part #	✓
18	1	Pair	Lower control arms (assembled)	DK-541908-LCA	
1C 2 Front inner bushing sleeve DK-185803797 1D 2 Back inner bushing sleeve DK-185803702 1E 2 ½"-20 x 3" grade 8 bolts with SAE washes and nylocs N/A (assembled in Ica shock mounts) N/A	1A	2	FK 1" uniball	WSSX16T	
Back Inner bushing sleeve	1B	2	1" uniball snap ring	WSSX16T-SR	
1E	1C	2	Front inner bushing sleeve	DK-IB5803797	
Cassembled in Ica shock mounts Service S	1D	2	Back inner bushing sleeve	DK-IB5803702	
Cassembled in Ica shock mounts Service S	1E	2	1/2"-20 x 3" grade 8 bolts with SAE washes and nylocs	N/A	
Delrin bushing			(assembled in Ica shock mounts)		
The color of the			1/4-28 zerk fitting		
2 2 Upper control arms (assembled) DK-541908-H-UCA 2A 2 FK 1" uniball WSSX16T 2B 2 1" uniball snap ring WSSX16T-SR 2C 4 FK 3" heim JM12T 2D 4 5/8"-16 jam nut DK-JN22 2E 8 3" heim spacer DK-09830054 3 4 5/8"-18 x 3.5" grade 8 bolts with SAE washers and nylocs DK-541960 4 2 3" tie rod extension DK-541960 5 2 18" brake lines DK-230718 5A 2 Brake line hold down clamp DK-541951 6 2 Front bolt on limit strap kit DK-541952 6A 2 8" limit strap DK-541952 6A 2 Adjustable limit strap clevis' with jam nuts DK-541953 6C 2 Bolt on limit strap mount with 5/8" SAE washers and nyloc DK-541954 6D 4 ½"-20 x 1.25" bolts with SAE washers and nylocs N/A 7 2 Upper control arm spacer kit	1G		Delrin bushing	DK-DB600025	
2A 2 FK 1" uniball WSSX16T	1H	2	Dirt King logo plate	N/A	
2B 2	2		Upper control arms (assembled)	DK-541908-H-UCA	
2C 4 FK ¾" heim JM12T	2A	2	FK 1" uniball	WSSX16T	
2D 4 34"-16 jam nut	2B	2	1" uniball snap ring	WSSX16T-SR	
2E 8 34" heim spacer DK-09830054 3 4 5/8"-18 x 3.5" grade 8 bolts with SAE washers and nylocs (UCA bolts to the frame) DK-541960 4 2 3" tie rod extension DK-TR4503 5 2 18" brake lines DK-230718 5A 2 Brake line hold down clamp DK-541951 6 2 Front bolt on limit strap kit DK-541952 6A 2 8" limit strap DK-LS6708 6B 2 Adjustable limit strap clevis' with jam nuts DK-541953 6C 2 Bolt on limit strap mount with 5/8" SAE washers and nyloc DK-541954 6D 4 ½"-20 x 1.25" bolts with SAE washers and nylocs N/A 7 2 Upper control arm spacer kit DK-541925 7A 2 9/16"-18 x 5.125" grade 8 bolts with SAE washers and nylocs N/A 7B 2 9/16" ID high misslignment spacer DK-088700812 7C 2 9/16" ID upper arm tapered spacer DK-634918 8 2 Lower control arm spacer kit DK-54193	2C	4	FK ¾" heim	JM12T	
3	2D	4	¾"-16 jam nut	DK-JN22	
(UCA bolts to the frame) 4	2E	8	¾" heim spacer	DK-09830054	
4 2 3" tie rod extension DK-TR4503 5 2 18" brake lines DK-230718 5A 2 Brake line hold down clamp DK-230718 6 2 Brake line hold down clamp DK-541951 6 2 Front bolt on limit strap kit DK-541952 6A 2 8" limit strap DK-LS6708 6B 2 Adjustable limit strap flevis' with jam nuts DK-541953 6C 2 Bolt on limit strap mount with 5/8" SAE washers and nyloc DK-541953 6D 4 V2"-20 x 1.25" bolts with SAE washers and nylocs N/A 7 2 Upper control arm spacer kit DK-541925 7A 2 9/16"-18 x 5.125" grade 8 bolts with SAE washers and nylocs N/A 7B 2 9/16"-18 x 5.125" grade 8 bolts with SAE washers and nylocs DK-088700812 7C 2 9/16" ID high misalignment spacer DK-088700812 8 2 Lower control arm spacer kit DK-634918 8 2 Lower control arm spacer kit DK-541930 <td>3</td> <td>4</td> <td>5/8"-18 x 3.5" grade 8 bolts with SAE washers and nylocs</td> <td>DK-541960</td> <td></td>	3	4	5/8"-18 x 3.5" grade 8 bolts with SAE washers and nylocs	DK-541960	
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6A 2 8" limit strap DK-LS6708 6B 2 Adjustable limit strap clevis' with jam nuts DK-541953 6C 2 Bolt on limit strap mount with 5/8" SAE washers and nyloc DK-541954 6D 4 ½"-20 x 1.25" bolts with SAE washers and nylocs N/A 7 2 Upper control arm spacer kit DK-541925 7A 2 9/16"-18 x 5.125" grade 8 bolts with SAE washers and nylocs N/A 7B 2 9/16" ID high misalignment spacer DK-088700812 7C 2 9/16" ID upper arm tapered spacer DK-634918 8 2 Lower control arm spacer kit DK-541930 8A 2 5/8"-18 x 4.5" custom grade 8 bolts with SAE washers and nylocs (one SAE washer per bolt) N/A 8B 2 5/8" ID half-moon spacer DK-088800156				DK-541951	
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7B 2 9/16" ÎD high misalignment spacer DK-088700812 7C 2 9/16" ÎD upper arm tapered spacer DK-634918 8 2 Lower control arm spacer kit DK-541930 8A 2 5/8"-18 x 4.5" custom grade 8 bolts with SAE washers and nylocs (one SAE washer per bolt) N/A 8B 2 5/8" ID half-moon spacer DK-088800156					
7C 2 9/16" ID upper arm tapered spacer DK-634918 8 2 Lower control arm spacer kit DK-541930 8A 2 5/8"-18 x 4.5" custom grade 8 bolts with SAE washers and nylocs (one SAE washer per bolt) N/A 8B 2 5/8" ID half-moon spacer DK-088800156			9/16"-18 x 5.125" grade 8 bolts with SAE washers and nylocs		
8 2 Lower control arm spacer kit DK-541930 8A 2 5/8"-18 x 4.5" custom grade 8 bolts with SAE washers and nylocs (one SAE washer per bolt) N/A 8B 2 5/8" ID half-moon spacer DK-088800156		2	9/16" ID high misalignment spacer	DK-088700812	
8A 2 5/8"-18 x 4.5" custom grade 8 bolts with SAE washers and nylocs (one SAE washer per bolt) N/A 8B 2 5/8" ID half-moon spacer DK-088800156	7C		9/16" ID upper arm tapered spacer	DK-634918	
(one SAE washer per bolt) 8B 2 5/8" ID half-moon spacer DK-088800156				DK-541930	
8B 2 5/8" ID half-moon spacer DK-088800156	8A	2		N/A	
	8B	2		DK-088800156	
I 8C I Z I 5/8" ID lower arm tapered spacer I DK-541929 I	8C	2	5/8" ID lower arm tapered spacer	DK-541929	

Long Travel Kit Options

9	Kit	Front sway bar kit	DK-541955	
9A	2	Sway bar end link assembled with HRSMX8T heims and jam nuts	DK-541956	
9B	4	1/2"-20 x 2" grade 8 bolts with SAE washes and top locks	DK-541955-H	
9C	2	Sway bar clevis adaptors assembled with 5/8"-11 nyloc and SAE washer	DK-541957	
9D	2	½" sway bar spacer	DK-541955-S	
10	2	Coil bucket shock mount kit	DK-541932	
11	2	Bolt on reservoir mount kit	DK-541933	
12	2	3" extended front axle shafts	DK-541948	
13	2	Spec shocks for long travel kit	DK-541941-4WD	



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Install must be done by a qualified mechanic. Carefully read all directions before installation.

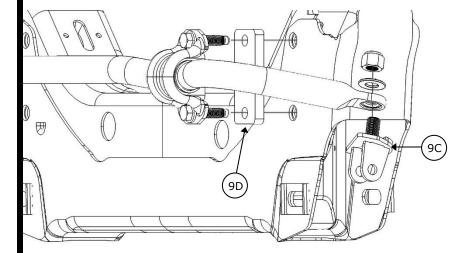
Step 1 - Axle Assembly

Assemble the extended axle shaft (Item 11) into the inner and outer CV's. The inner CV housing must be internally machined to allow for all of the down travel. Machine the housing at a 27° tapper until it has removed material on all six edges as shown in the "After" photo. The CV housing may also be sent into Dirt King Fabrication to be machined. Do not reuse the old grease boots when assembling the axle. Due to the increased CV articulation we recommend applying epoxy to the boots so they don't separate from the CV housings.



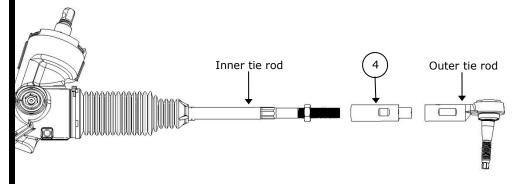


Step 2 - Sway Bar Assembly



Install the ½" sway bar spacer (Item 9D) with the factory bolts. Apply red Loctite and torque the bolts to 85ft lbs. Now install the sway bar clevis adaptor (Item 9C). The clevis' are side specific. Torque the 5/8" nut to 125ft lbs with red Loctite on the threads.

Step 3 – Steering Assembly

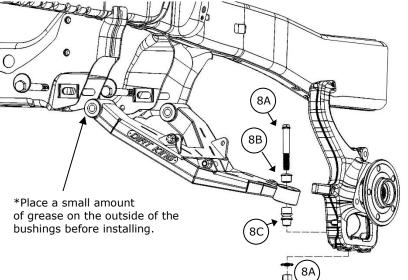


Place red Loctite on the threads of the tie rod extension (Item 4) and tighten it to the outer tie rod. Once complete thread the extended outer tie rod assembly on the inner tie rod.



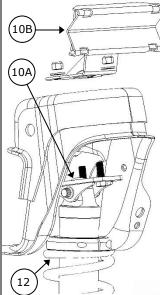
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Step 4 - Lower Control Arm Installation



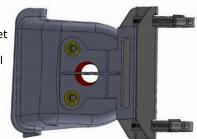
Install the lower control arm (Item 1) to the frame and tighten the alignment cams. Next insert the spacers (Item 8B & 8C) into the uniball. Install the spindle to the lower arm and torque the bolt to 150ft lbs with red Loctite on the threads. Make sure the spacers are fully inserted before tightening to prevent damage.

Step 5 - Shock Installation

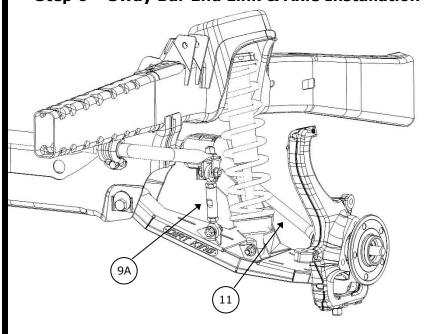


Bolt the shock (Item 12) to the shock mount (Item 10A). Now bolt them to the coil bucket along with the reservoir mount (Item 10B). Torque the nuts to 70ft lbs. Mount the reservoir to the bracket with the hose looping backwards for maximum clearance. Bolt the shock to the lower arm and torque the bolt to 85ft lbs.

*On 2014 and newer models the coil bucket may have a smaller hole on top which will need to be modified for the shock to fit. Use the reservoir mount as a template and cut out the area shown in red.



Step 6 - Sway Bar End Link & Axle Installation

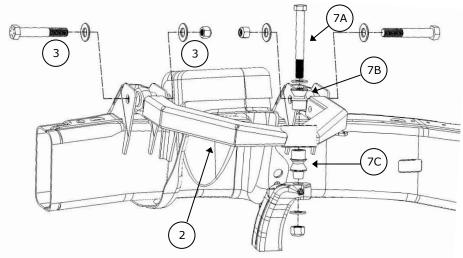


Start by installing the axle assembly into the spindle. Tilt the spindle outward and install the axle on the differential. Be cautious not to over extend the inner CV. You must also be careful not to damage the CV boots during the process. Now bolt in the sway bar end link with the supplied ½" bolts. Put anti-seize on the threads and torque the bolts to 85ft lbs.



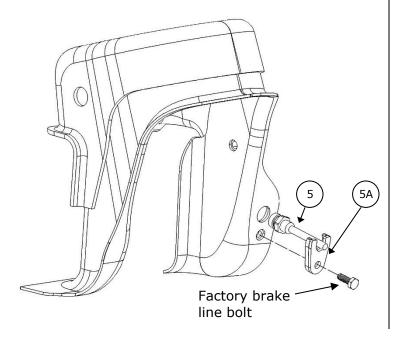
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Step 7 - Upper Control Arm Installation

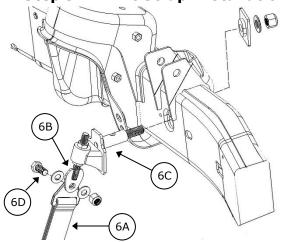


First bolt the upper control arm (Item 2) to the frame with the 5/8" grade 8 bolts (Item 3). Some models will need the holes on the frame enlarged or use the factory UCA mounting hardware. Torque the 5/8" bolts to 150ft lbs. Before installing the arm to the spindle rotate the arm upward making sure it will not come into contact with the reservoir or the hose. Bolt the arm to the spindle and torque the bolt (Item 7A) to 100ft lbs with red Loctite applied. Make sure the spacers are fully inserted before tightening to prevent damage.

Step 8 - Brake Line Installation



Step 9 - Limit Strap Installation



Install the limit strap clevis mount (Item 6C) to the frame and torque the nut to 150ft lbs. Bolt up the limit strap to the lower arm and clevis mount. Torque the limit strap bolts (Item 6D) to 85ft lbs. Make sure the clevis mount is in line with the strap. Readjust the mount if needed.

Step 10 - Final Assembly

Look over your work and verify everything is installed correctly. Bleed the brakes and set the alignment. Next adjust the limit strap clevis (Item 6B) so the limit strap (Item 6A) limits the suspension before the upper control arm spacer (Item 7B) contacts the upper control arm (Item 2) at full droop. If you plan on installing 37" tires the wheel well pinch weld needs to be folded over and the corner of the headlight bracket needs to be cut for tire clearance throughout the suspension cycle.





Terms & Conditions

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THE FOLLOWING TERMS AND CONDITIONS APPLY TO ALL ORDERS PLACED WITH DIRT KING FABRICATION (WEBSITE, PHONE, FAX, MAIL, OR E-MAIL), EITHER DIRECTLY OR THROUGH A DEALER, CONSTITUTE THE ACKNOWLEDGEMENT AND ACCEPTANCE OF ALL THE CONDITIONS LISTED BELOW:

All products sold or manufactured by Dirt King Fabrication are intended for off-road use only. Our suspension systems are not to be modified from its original design in any way. Dirt King Fabrication is not responsible or liable for any accidents, injuries or deaths that may occur from the use of any products offered. Installation of this system will alter the center of gravity of the vehicle and may increase the risk of a roll over as compared to stock. It is the responsibility of the customer to check if any products will void their vehicles warranty before installation. Customer assumes all liability in assuring that parts are correctly installed and maintained. We are not responsible for products that don't fit correctly on a vehicle which has been in an accident. Consult your local laws before installing any products.

Shipping & Delivery

At this time, Dirt King Fabrication ships merchandise to locations within the United States and U.S. territories, including Alaska, Hawaii, Puerto Rico, Guam, and the US Virgin Islands. Additionally, Dirt King Fabrication ships merchandise to Canada and Mexico, but not to other international locations. The risk of loss and title for all merchandise ordered pass to you when the merchandise is delivered to the shipping carrier.

Return Policy

- Returns are only accepted within 30 days of original purchase.
- Original copy of invoice must be provided
- We are not responsible for shipping on returned products.
- 15% restocking fee will be charged on all returns.
- Deposits on custom orders or products built to order are non-refundable.
- Parts must be returned in the original package and condition as they were sent.
- No returns on items that have been damaged or installed.

Missing or Defective Parts

Dirt King Fabrication goes though various stages of quality control to insure all parts are included and packaged correctly however there may be an instance where something is looked over. If there is a missing or defective part a claim must be made with Dirt King Fabrication within 60 days of original purchase. Photos of the box's exterior and contents must be e-mailed along with a description of what's missing or defective. If the box has any holes, tears or damage from shipping Dirt King Fabrication will determine if it's a claim that must be made with the shipping carrier. For defective parts photos need to be taken prior to install.

Core Charges

- All cores must be original OEM parts. Remanufactured parts will not be accepted.
- All cores must be received within 30 days of purchase for full credit.
- Partial or no credit will be issued if core is damaged or modified in any way.

Maintenance

After initial installation parts may make a clunking or creaking sound until the heims, uniballs, and bushings settle and are broken in. After a 50 mile break in period you must go through and re-torque all of the bolts. Over time you will also need to apply a Teflon based dry lubricant spray to the uniballs and heims. The bushings will need to be greased through the zerk fittings. This will increase the lifespan of the joints and help prevent them from making noise. Inspect these items periodically for unusual wear and replace if necessary. Replacement is necessary if any of the heims, uniballs, or bushings has an excessive amount of movement.



Check List

Long Travel Kit Part # DK-541908-H Page 6 of 6

☐ Machine inner cv housing and install extended axle into the factory cv's.
☐ Install the ½" sway bar spacer and torque bolts down to 85ft lbs with red Loctite applied.
☐ Install sway bar clevis adaptor and torque nut down to 125ft lbs with red Loctite applied.
Put red Loctite on the threads of the tie rod extension and tighten it to the outer tie rod.
☐ Install the lower arm to the frame with grease on the outside of the bushings.
☐ Bolt the lower arm to the spindle and torque the bolt to 150ft lbs with red Loctite applied.
☐ Install the shock and reservoir bracket. Torque lower shock bolt to 85ft lbs and upper nuts to 70ft lbs.
\square Install the axle assembly to the spindle and differential.
\square Bolt in the sway bar end link by applying anti-seize to the threads and torque the bolts to 85ft lbs.
\square Install the upper arm to the frame and torque the 5/8" bolts to 150ft lbs. Check reservoir clearance as well.
\square Install the upper arm to the spindle and torque the bolt to 100ft lbs with red Loctite applied.
\square Install the extended brake lines.
\square Bolt the limit strap mount to the frame and torque the nut to 150ft lbs followed by installing the limit strap.
Passenger Side
☐ Machine inner cv housing and install extended axle into the factory cv's.
\square Install the $1/2$ " sway bar spacer and torque bolts down to 85ft lbs with red Loctite applied.
\square Install sway bar clevis adaptor and torque nut down to 125ft lbs with red Loctite applied.
\square Put red Loctite on the threads of the tie rod extension and tighten it to the outer tie rod.
\square Install the lower arm to the frame with grease on the outside of the bushings.
\square Bolt the lower arm to the spindle and torque the bolt to 150ft lbs with red Loctite applied.
\square Install the shock and reservoir bracket. Torque lower shock bolt to 85ft lbs and upper nuts to 70ft lbs.
\square Install the axle assembly to the spindle and differential.
\square Bolt in the sway bar end link by applying anti-seize to the threads and torque the bolts to 85ft lbs.
\square Install the upper arm to the frame and torque the 5/8" bolts to 150ft lbs. Check reservoir clearance as well.
\square Install the upper arm to the spindle and torque the bolt to 100ft lbs with red Loctite applied.
☐ Install the extended brake lines.
\square Bolt the limit strap mount to the frame and torque the nut to 150ft lbs followed by installing the limit strap.
Both Sides
\square Bleed the brakes.
\square Make sure the wheel wells have proper clearance for the tires.
\square Set the limit straps to limit the suspension before the upper arms contact the spacers.
\square Do a visual check on all your work and have the alignment done.